



Through the No Child Left Behind Act, the Enhancing Education Through Technology (Ed Tech) Program was created. The

primary goal of the program is to improve student's academic achievement through the use of technology in schools. These standards were created and designed to assist every student in crossing the digital divide by ensuring that they are technologically literate by the end of their public education in South Dakota.

Strands include:

- Nature, Concepts, and Systems
- Social Interactions
- Information and Communication Tools
- Information and Communication Processes
- Information Literacy and Decision Making

share

learn

explore

care

hope

understand

believe



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South Dakota Educational Technology Standards



Ninth – Twelfth Grade



Standards with Indicators

Nature, Concepts, and Systems

Indicator 1: Students understand the history and progression of technology in relation to the development and design of future technology.

9-12.NC.1.1 Compare and contrast how societal changes mirror innovations and emerging technologies.

9-12.NC.1.2 Predict how the evolution of technology will influence the design and development of future technology.

Indicator 2: Students analyze the parts of a technological system in terms of input, process, output, and feedback.

9-12NC.2.1 Analyze technology systems to make informed choices.

Indicator 3: Students analyze the relationships and connections between technologies in different fields of study and how they apply to communities.

9-12.NC.3.1 Analyze intended and unintended impacts of a system.

9-12.NC.3.2 Integrate technology into school, home and community.

9-12.NC.3.3 Evaluate technologies that increase educational and workplace opportunities.

Indicator 4: Students understand the purpose and demonstrate the use of the design process in problem solving.

9-12.NC.4.1 Compare and contrast other problem-solving and decision-making methods.

9-12.NC.4.2 Formulate a technological solution using data-driven decision making.

Social Interaction

Indicator 1: Students understand the safe, ethical, legal, and societal issues related to technology.

9-12.SI.1.1 Evaluate the need for acceptable use policies.

9-12.SI.1.2 Compile a list of immediate and long-range effects of ethical and unethical uses of technology on individual and society.

Indicator 2: Students investigate the advantages and disadvantages of technology.

9-12.SI.2.1 Analyze advantages and disadvantages of widespread use and reliance on technology in the workplace and society as a whole.

9-12.SI.2.2 Compare and contrast society's influence on technology and technology's influence on society.

Information and Communication Tools

Indicator 1: Students recognize and demonstrate skills in operating technological systems.

9-12.CT.1.1 Incorporate knowledge and enhanced usage skills to create a product.

9-12.CT.1.2 Apply strategies for identifying and solving routine hardware and software issues.

Indicator 2: Students use technology to enhance learning, extend capability, and promote creativity.

9-12.CT.2.1 Utilize a virtual learning environment as a strategy to build 21st century learning skills.

9-12.CT.2.2 Investigate how to apply expert systems, intelligent agents, and simulations in real-world situations.

9-12.CT.2.3 Utilize online information resources routinely and efficiently to meet needs for collaboration, research,

publication, communication, and productivity.

Indicator 3: Students evaluate and select information tools based on the appropriateness to specific tasks.

9-12.CT.3.1 Select and apply technology tools for research, information, analysis, problem solving, and decision making in content learning.

9-12.CT.3.2 Organize and manage personal/professional information using technology tools (e.g., finances, schedules, addresses, purchases, correspondence).

Information and Communication Processes

Indicator 1: Students understand the purpose of information technologies to communicate with a variety of collaborators.

9-12.CP.1.1 Collaborate with external peers, experts, and others by using technology to compile, synthesize, produce, and disseminate information, models, and other creative works.

Indicator 2: Students exchange information and ideas for an identified purpose through information technologies.

9-12.CP.2.1 Adapt delivery of communication based on available information technologies.

Information Literacy and Decision Making

Indicator 1: Students use technology to locate and acquire information.

9-12.IL.1.1 Design a research project using a variety of technologies to find information to solve a real-world problem.

Indicator 2: Students determine the reliability and relevancy of information.

9-12.IL.2.1 Independently evaluates the accuracy, relevance, appropriateness, comprehensiveness, and bias of electronic information sources.